Parallel Sensors Experiment Protocol

Characterization

As all of them were inducible constructs, fluorescence would only be expressed when inducers were present.

For every single characterization, same procedures were followed. First, the sample which would be measured had to be inoculated. The next day, 25-fold dilution was carried out for the inoculated samples by using the M9 minimal medium with specific inducers and concentrations. They would then be transferred into 96-well deep well plate for overnight induction. Again, the sample would be further diluted by ten-fold dilution in the next day. Several hours were needed to let the cells grow from lag phase to log phase. Ultimately, the measurements were made with the help of EnVision® Multilabel Reader (OD_{595}) using filter 485/14nm FITC and 535/25nm FITC for excitation and emission measurement respectively.

Medium preparation

M9 minimal medium was used for inoculation, making medium with inducers and dilution. This medium was chosen because of its low auto-fluorescence. Serial dilution was usually adopted for making medium with different concentration of inducers.